



LHCC series is designed for low profile type with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

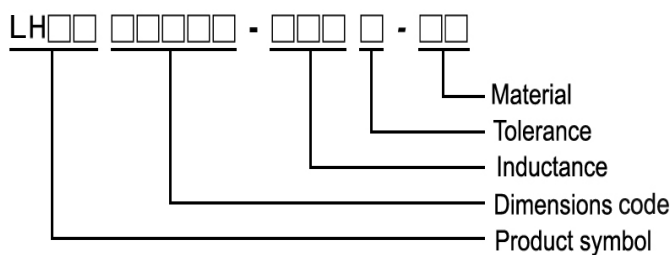
### Features

- RoHS, Halogen Free and REACH Compliance
- High rated current
- Ultra low buzz noise

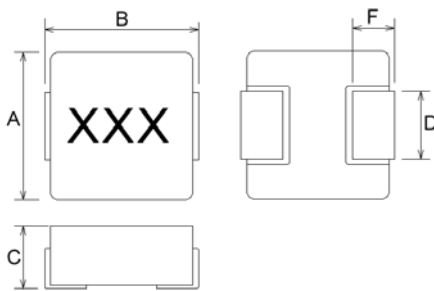
### Applications

- Laptops and PCs
- Switches and servers
- Base stations
- DC/DC converters

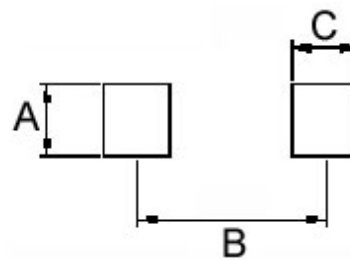
### Product Identification



### Shape and Dimensions



### Recommended Pattern



Dimensions in mm

TYPE	A	B Max	C Max	D	F
04012	4.1±0.2	4.6±0.2	1.2	1.5±0.3	1.0±0.5
04015	4.1±0.2	4.6±0.2	1.5	1.5±0.3	1.0±0.5
04020	4.1±0.2	4.6±0.2	2.0	1.5±0.3	1.0±0.5
05012	5.4±0.35	5.7±0.2	1.2	2.0±0.3	1.5±0.3
05015	5.4±0.35	5.7±0.2	1.5	2.0±0.3	1.5±0.3
05018	5.4±0.35	5.7±0.2	1.8	2.0±0.3	1.5±0.3
05020	5.4±0.35	5.7±0.2	1.8±0.2	2.0±0.3	1.5±0.3
05030	5.4±0.35	5.7±0.2	3.0	2.0±0.3	1.5±0.3
06012	6.6±0.2	7.3	1.2	2.9	1.6±0.5
06015	6.6±0.2	7.3	1.3±0.2	2.9	1.6±0.5
06018	6.6±0.2	7.3	1.6±0.2	2.9	1.6±0.5
06024	6.6±0.2	7.3	2.4	2.9	1.6±0.5
06030	6.6±0.2	7.3	3.0	2.9	1.6±0.5
06050	6.6±0.2	7.3	5.0	2.9	1.6±0.5
10030	10.1±0.3	11.6	3.0	3.0	2.5±0.5
10040	10.1±0.3	11.6	4.0	3.0	2.5±0.5
12050	12.6±0.2	13.8	5.0	3.7	2.7±0.7
12060	12.6±0.2	13.8	6.0	3.7	2.7±0.7

Dimensions in mm

TYPE	A	B	C
04012	2.5	3.7	1.5
04015	2.5	3.7	1.5
04020	2.5	3.7	1.5
05012	2.5	4.1	1.9
05015	2.5	4.1	1.9
05018	2.5	4.1	1.9
05020	2.5	4.1	1.9
05030	2.5	4.1	1.9
06012	3.5	6.05	2.35
06015	3.5	6.05	2.35
06018	3.5	6.05	2.35
06024	3.5	6.05	2.35
06030	3.5	6.05	2.35
06050	3.5	6.05	2.35
10030	4.0	9.5	3.5
10040	4.0	9.5	3.5
12050	5.0	10.5	4.0
12060	5.5	10.5	4.0

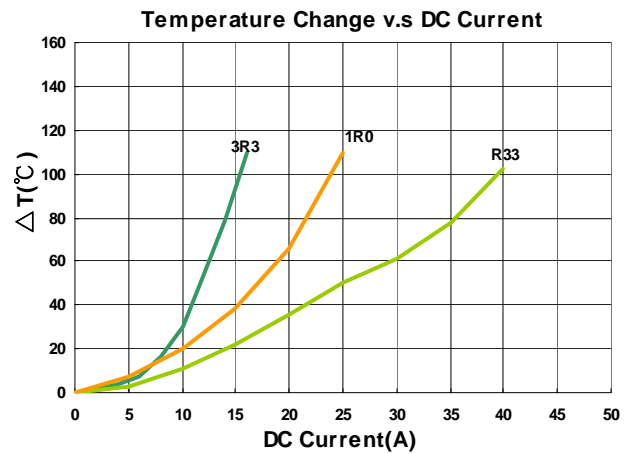
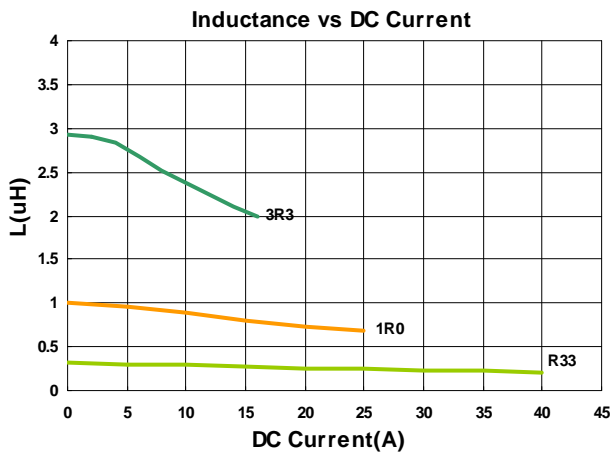
## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
LHCC10030-R33M-R7A	0.33	20	100	1.6	32	23
LHCC10030-1R0M-R7A	1.0	20	100	6.0	21	15
LHCC10030-3R3M-R7A	3.3	20	100	16.0	14	9

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.5V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B

**Test Instruments :** WK3260B Impedance / Material Analyzer



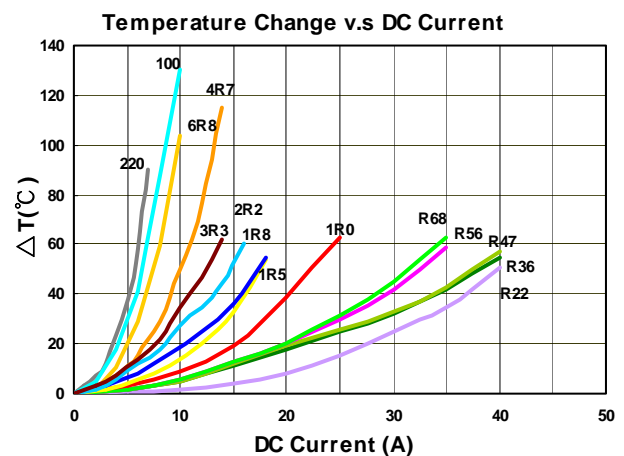
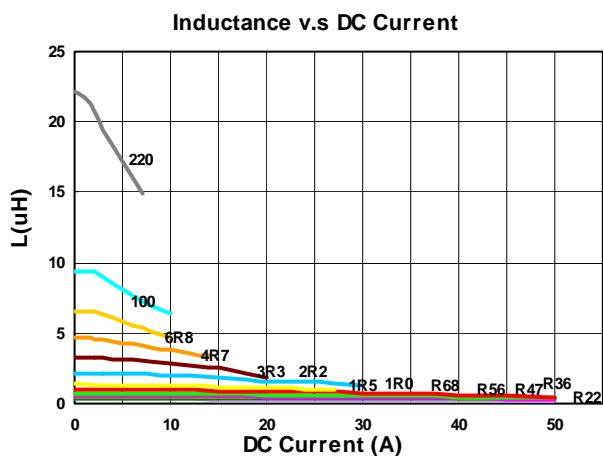
## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
LHCC10040-R22M-R7	0.22	20	100	0.6	45	35
LHCC10040-R36M-R7	0.36	20	100	1.2	42	34
LHCC10040-R45M-R7	0.45	20	100	1.2	38	33
LHCC10040-R47M-R7	0.47	20	100	1.2	38	33
LHCC10040-R56M-R7	0.56	20	100	1.55	32	27
LHCC10040-R68M-R7	0.68	20	100	1.55	30	27
LHCC10040-1R0M-R7	1.0	20	100	3.1	26	20
LHCC10040-1R5M-R7	1.5	20	100	4.2	22	16
LHCC10040-1R8M-R7	1.8	20	100	5	16	15.3
LHCC10040-2R2M-R7	2.2	20	100	7	16	14
LHCC10040-3R3M-R7	3.3	20	100	13.2	12	11
LHCC10040-4R7M-R7	4.7	20	100	16.5	12	9
LHCC10040-6R8M-R7	6.8	20	100	25	10	6
LHCC10040-8R2M-R7	8.2	20	100	30	9	6
LHCC10040-100M-R7	10	20	100	30	7	6.5
LHCC10040-150M-R7	15	20	100	45	6	6.25
LHCC10040-220M-R7	22	20	100	72	5.5	5

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.5V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B

**Test Instruments : WK3260B Impedance / Material Analyzer**



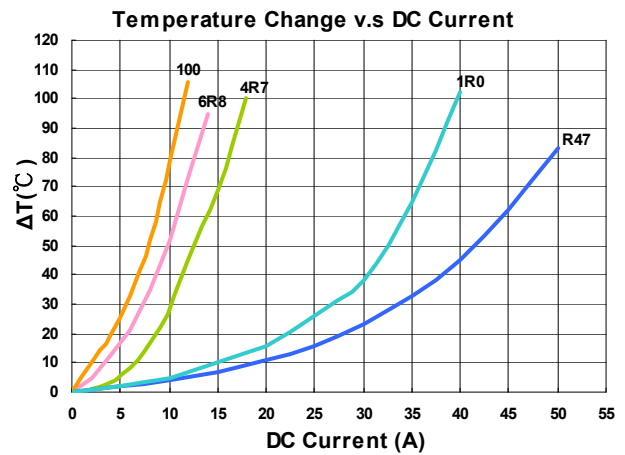
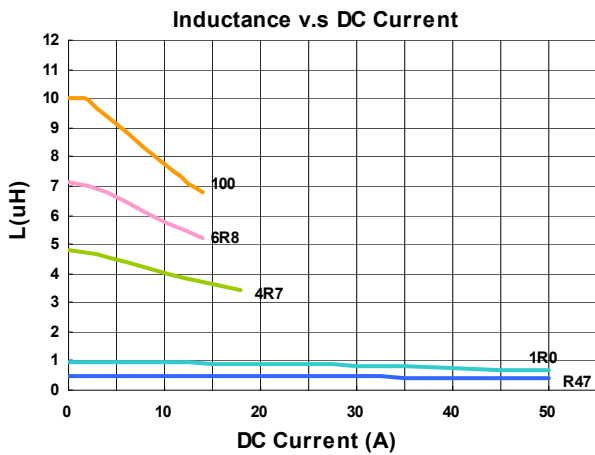
## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
LHCC12050-R47M-R7	0.47	20	100	1.2	46	37
LHCC12050-1R0M-R7	1.0	20	100	2.5	37	29
LHCC12050-1R5M-R7	1.5	20	100	3.0	28	28
LHCC12050-4R7M-R7	4.7	20	100	11.5	16	11
LHCC12050-6R8M-R7	6.8	20	100	22	14	9
LHCC12050-100M-R7	10	20	100	35	13	7

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.5V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B

**Test Instruments :** WK3260B Impedance / Material Analyzer



## Electrical Characteristics

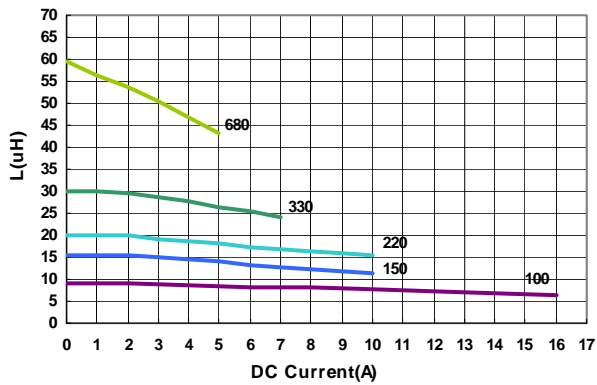
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
LHCC12060-100M-R7A	10	20	100	20.7	12.5	10
LHCC12060-150M-R7A	15	20	100	29.0	9.0	6.0
LHCC12060-220M-R7A	22	20	100	39.5	7.5	5.0
LHCC12060-330M-R7A	33	20	100	75	6.0	4.0
LHCC12060-680M-R7A	68	20	100	140	4.5	3.0

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

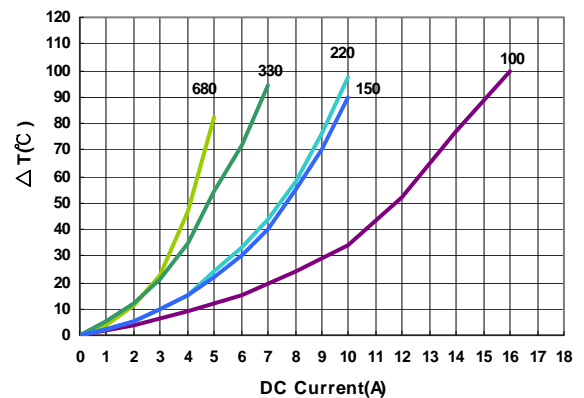
- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :  
 L : WK 3260B or WK 6500P, 100kHz 0.5V  
 RDC : CHEN HWA 502 or CHEN HWA 46502B

**Test Instruments** : WK3260B Impedance / Material Analyzer

Inductance vs DC Current

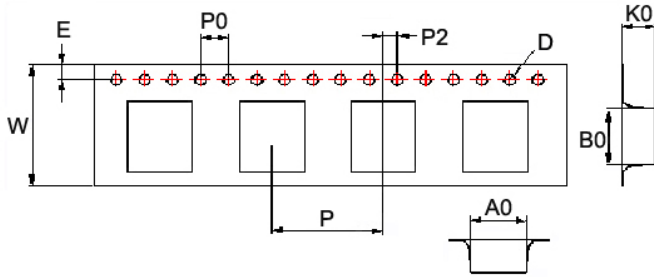


Temperature Change v.s DC Current

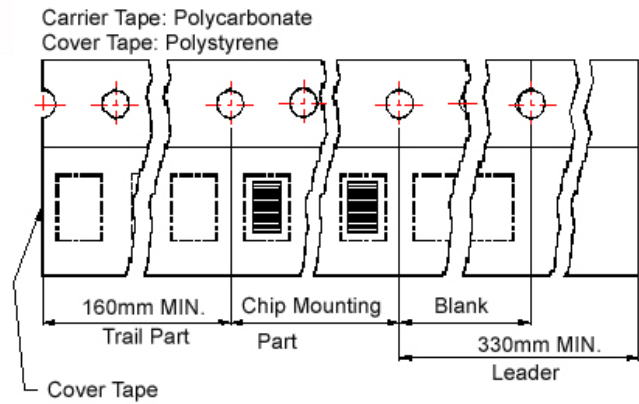


## Packaging Specifications

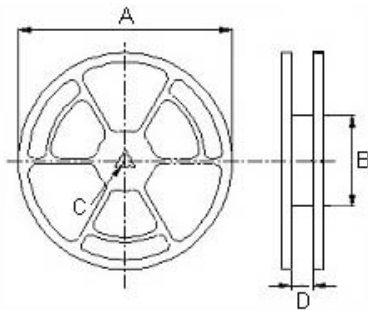
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
04012	4.6	5.0	1.5	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
04015	4.4	4.9	1.8	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
04020	4.3	4.9	2.4	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
05012	5.9	6.2	1.5	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
05015	5.7	6.1	1.9	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
05018	5.9	6.2	2.2	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
05020	5.7	5.9	2.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
05030	5.9	6.2	3.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
06012	6.9	7.6	1.6	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
06015	6.9	7.6	1.9	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
06018	6.9	7.6	2.2	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
06024	6.9	7.6	2.9	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
06030	6.9	7.6	3.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
06050	6.9	7.6	5.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
10030	10.6	11.7	3.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
10040	10.6	11.7	4.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
12050	13	14	5.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
12060	13	14	6.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500

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